Part-4: Refine lockdown

Q = {prep_vpurge, alt_temp, alt_psi, risk_assess, safe_status}

$\mathbf{q_0}$: prep_vpurge

Σ1 = {initiate_purge, tcyc_comp, psicyc_comp, check_risk}

Σ2 = {lock_doors, unlock_doors}

V = {risk : $\mathbb{R}$}

Λ = {

$\longrightarrow prep\_vpurge$

$prep\_vpurge \xrightarrow{initiate\_purge\ /\ lock\_doors} alt\_temp$

$prep\_vpurge \xrightarrow{initiate\_purge\ /\ lock\_doors} alt\_psi$

$alt\_temp \xrightarrow{tcyc\_comp} risk\_assess$

$alt\_psi \xrightarrow{psicyc\_comp} risk\_assess$

$risk\_assess \xrightarrow{check\_risk\ [risk > 1\%]} prep\_vpurge$

$risk\_assess \xrightarrow{check\_risk\ [risk \leq 1\%]\ /\ unlock\_doors} safe\_status$

$safe\_status \longrightarrow end$

}